

# AKANKSHA YADAV

+1(937) 951-0306 ◇ Los Angeles, CA - Open to Hybrid & Onsite

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## EDUCATION

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**Bachelor of Computer Science**, University of Dayton

May 2025

- Dean's Honors List; University of Dayton Global Scholarship
- JP Morgan Chase Hack for Good 2024 Participant

## CERTIFICATIONS

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AWS Certified Cloud Practitioner – Amazon Web Services [[Show Credential](#)]

## SKILLS

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**Languages:** Python, Java, C#, JavaScript, SQL, R

**Frameworks:** Spring Boot, Flask, React, Angular, .NET MVC

**ML/CV:** PyTorch, OpenCV, CNNs, Vision Transformers

**Cloud/Databases:** AWS (CCP), Docker, Jenkins, Azure, Heroku, MongoDB, PostgreSQL, SQL Server

## EXPERIENCE

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**AI Research Assistant**

May 2025 – Present

Department of Computer Science, University of Dayton – Dayton, OH (Remote)

- Trained and evaluated CNN and Vision Transformer models on FaceForensics++ and DFDC datasets, improving classification accuracy by 15%.
- Built preprocessing, feature extraction, and evaluation pipelines in PyTorch to enable reproducible ML experimentation.
- Analyzed spatial and temporal artifacts (motion inconsistencies, compression effects) to improve robustness of CNN-based detectors.
- Designed experimental frameworks and conducted survey-based analysis with faculty mentor to support publication-ready machine learning research.

**Software Development Engineer Intern**

Aug 2023 – May 2024

Meadowlawn Condominiums – Cleveland, OH (Hybrid)

- Designed and deployed a production-grade maintenance CRM serving real users, built with Spring Boot, Java, JavaScript, AJAX, and HTML.
- Implemented secure authentication using Google SSO, Spring Security, and OAuth 2.0; designed RESTful APIs backed by MongoDB for CRUD workflows.
- Containerized and deployed the application using Docker and Jenkins CI/CD, enabling automated builds and reliable cloud deployment on Heroku.

**Software Development Engineer Intern**

May 2023 – Aug 2023

Lavner Education @ Carnegie Mellon University – Pittsburgh, PA

- Developed reporting features using C#, .NET MVC, XML, and Power BI to support data-driven operational insights.
- Supported automated reporting for after-test results and attendance summaries.
- Collaborated on UI/workflow improvements contributing to reduced support requests.

## PROJECTS

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**Horizon Messenger (MERN):** Built a real-time messaging app using React, Node.js/Express, MongoDB, WebSockets, and JWT authentication; deployed on Heroku.